

I-4

Ziegler Chemical & Mineral Corp.  
P.O. Box 455  
Great Neck, N.Y. 11021

February 7, 1979

Mr. Michael Thompson  
Reclamation Hydrologist  
State of Utah, Div. of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Sir:

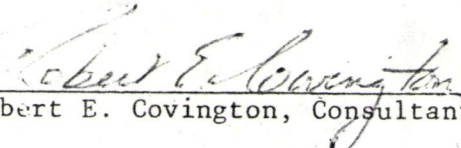
Enclosed please find the Mining Plans for Ziegler Chemical & Mineral Corp. on the I-4, E-5 and 8-A Gilsonite Mines.

Please advise me if there is any other information required.  
Thank you for your time and consideration in this matter.

Very truly yours,

Ziegler Chemical & Mineral Corp.

BY:

  
Robert E. Covington, Consultant

REC:mc

Encls.

cc: Mr. Gordon Ziegler, Jr.  
Frank Godina, Bonanza, Utah



MINING PLAN FOR  
ZIEGLER CHEMICAL & MINERAL CORP.

GILSONITE MINE I-4  
ON THE INDEPENDENT VEIN  
PATENTED LANDS,  
SECTION 16, T9S-R24E,  
UINTAH COUNTY, UTAH

BY  
ROBERT E. COVINGTON  
CERTIFIED PROFESSIONAL GEOLOGIST NO. 1705

AND  
PAUL RANDOLPH AND JEFF WINGERTER

February 6, 1979

VERNAL, UTAH



FILE NO. ACT/047/013DATE: February 7, 1979

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116

## DECLARATION OF EXEMPTION

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(See Mined Land Reclamation Act 40-8-4(6))

As provided for in Section 40-8-4 UCA 1953, I hereby declare an exemption from the "Utah Mined Land Reclamation Act", in that less than 500 tons of material is being mined or less than two (2) acres of land is being excavated or used as a disposal site during a period of twelve (12) consecutive months, from the following designated claims, leases, or fee acreage.

NAME OF CLAIM, LEASE, OR FEE ACREAGE	1/4, 1/2 SECTION	LOCATION		
		TOWNSHIP	RANGE	COUNTY
Patented Land	S 1/2 NE 1/4			
I-4 on Independent Vein	Sec. 16	9S	24E	Uintah

Commodity: GILSONITEDate: February 7, 1979Signature: Robert E. CovingtonRobert E. Covington, Consultant  
For: Ziegler Chemical & Mineral Corp.OPERATOR: Ziegler Chemical & Mineral Corp.ADDRESS: P.O. Box 455, Great Neck, New York, 11021TELEPHONE: (516) 482-8600

This form needs to be filed one time only. In the event more than the minimum size requirements are mined, a Notice of Intention to Commence Mining Operations (MR Form 1) and a Mining and Reclamation Plan (MR Form 2) will need to be filed with this office.

MINING APPLICATION  
NO. \_\_\_\_\_

Date \_\_\_\_\_

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

I-4 Gilsonite Mine on the  
Independent Vein (Patented  
land) in the SW $\frac{1}{4}$  NE $\frac{1}{4}$  of  
Sec. 16, T9S-R24E, SLM,  
Uintah County, Utah

MINING AND RECLAMATION PLAN  
(Other forms may be used in lieu of MR 2, provided  
they contain the same information)

1. Name of Applicant or Company Ziegler Chemical & Mineral Corp.
2. Proposed type of operation underground mine
3. (a) Prior Land Use(s) none  
(b) Current Land Use(s) none  
(c) Possible or Prospective Future Land Use(s) none
4. What vegetation exists on the land proposed to be affected sagebush  
  
(a) Types and Estimated Percent cover or density: sparse
5. What is the range pH of soil before mining? N/A pH  
Name of Person or Agency and method of determining pH \_\_\_\_\_
6. Site elevation above sea level 5255' ground
7. In case of coal, oil shale, and bituminous sandstone:  
Principal seam(s) and thickness(es) N/A
8. Estimated duration of mining operations 10 years
9. Has overburden, waste or rejected materials been classified as acid or  
alkali producing? ☒ Yes ☐ No  
Does the above material being moved have any other characteristics  
affecting revegetation? No
10. Will any underground workings or aquifers be encountered? ☐ Yes ☒ No  
Describe \_\_\_\_\_  
Is there an active discharge of water from abandoned deep mines on or  
crossing the land affected? ☐ Yes ☒ No If yes, describe  
the quality of water being discharged. \_\_\_\_\_



11. Describe specifically a detailed procedure for: See attached Mining Plan

- (a) The mining sequence
- (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
- (c) The procedure for site preparation including removing trees and brush.
- (d) The method for removing and stockpiling topsoil or disturbed materials.
- (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
- (f) A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe: See attached Mining Plan

- (a) Typical cross-section of regrading.
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

TESTING

1. Describe method for testing stability of reclamation fill material.  
See attached p. 2

Describe method for the testing of soil that is intended to support vegetation  
See attached p. 2

2. Describe any soil treatment employed as an aid to revegetation \_\_\_\_\_

See attached p. 2

3. Describe surface preparation of areas intended to support vegetation:

See attached p. 2

REVEGETATION

1. Revegetation to be completed by:

<input checked="" type="checkbox"/> Operator	<input type="checkbox"/> Hydroseeding
<input type="checkbox"/> Soil Conservation District	<input type="checkbox"/> Aerial Seeding
<input type="checkbox"/> Private Contractor	<input type="checkbox"/> Conventional or Rangeland Drilling
Name _____	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Other (specify) _____	

2. Will Mulch be used?

Type \_\_\_\_\_ Rate/Acre yes (U. G. U. rec.) lbs.



3. Revegetation Plan and Schedule - Will be based on Utah State University Soil Testing Laboratories recommendation.

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
SEE	ABOVE	NOTE		

4. Will affected area be subject to livestock or wildlife grazing? ( ) Yes  
(X) No Will vegetation protection be needed? NO

5. Will irrigation be used? ( ) Yes (X) No Type \_\_\_\_\_

6. Describe maintenance procedures for revegetation if needed, until surety release is granted. Monthly field inspection

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining Plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed G. S. Ziegler, Jr. Operator Date 2/27/79

Ziegler Chemical & Mineral Corp. BY:

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 27<sup>th</sup> day of February, 19 79.

BRIAN LYNCH  
NOTARY PUBLIC, State of New York  
No. 30-4613944  
Qualified in Nassau County  
Commission Expires March 30, 19 79

Notary Public Brian Lynch

My Commission Expires: 3/30/79



11 (a) See attached mining plan.

(b) Procedure for constructing and maintaining access roads:

Haulage roads have already been constructed and are being maintained by the operator.

(c) Procedure for site preparation:

There are no trees on the site. Sagebrush has been removed. A dozer was used to level an area of 20 square feet for the tibble over the vein and an area of 800 square feet for the hoist house.

(d) Method for removing topsoil:

Topsoil was removed by dozer and stockpiled away from the working area.

(e) Disturbed topsoil:

All disturbed topsoil will be replaced after mining operations are completed by replacement onto disturbed site. Topsoil will be machine packed.

(f) Stabilization:

Final stabilization of disturbed materials will be made by grading and reseeding, (see below).

#### GRADING AND REGRADING:

(a) Cross-section will conform to present topography with approximately 1 foot of topsoil over it and blended in with the undisturbed surroundings.

(b) Method of spreading topsoil:

A bulldozer will be used to spread the stockpiled topsoil. The approximate thickness of the topsoil will be 1 foot. The original contours will be restored as nearly as possible.

(c) What type of soil treatment will be provided:

Prior to commencement of regrading, soil tests will be run on the topsoil by Utah State University Testing Station to determine pH, fertility rate, etc. The plan is to follow U.S.U.'s recommendations with reference to treatment.



- (d) Method of drainage control for entire area:

Natural drainage will be re-established by hand ditching or dozing.

- (e) Maximum grading slope will be 2% or less.

TESTING:

1. Describe Method of Testing Stability of Reclamation of Fill Material:

Yardage of topsoil to be removed prior to mining operation is calculated as follows:

Change house, showers and living quarters are provided at the operator's office area located in the SE  $\frac{1}{4}$  NE  $\frac{1}{4}$  of Section 16, T9S-R24E, Uintah County, Utah.

- (a) Mining Area:

1 acre = 1613 cu. yards

- (b) Haulage Roads:

1 acre = 1613 cu. yards

Topsoil will be replaced with dozer and compacted.

2. Describe any soil treatment to be employed:

Recommendations of soil tests run by U.S.U. will be followed.

3. Describe surface preparation:

Area will be re-graded and mulched. Seed bed preparation will consist of utilizing U.S.U.'s recommendation on seeding. Fertilizers will be applied if necessary to obtain proper soil conditions.



